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## WHAT IS CLAIMED IS:

1. A system for indicating proper sterilization of a mail article,
said system comprising:
a mail article;
a postage stamp affixed to said mail article, said postage stamp
having a color indicator;
a sterilization apparatus having means for sterilizing said mail
article;
whereby when said mail article is sterilized by the sterilization
apparatus, said color indicator changes from a first color to a second
color.
2. The system of claim 1 wherein the sterilization apparatus
emits an electron beam to sterilize said mail article.

3. The system of claim 1 wherein the sterilization apparatus emits gamma radiation to sterilize said mail article.

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- 4. The system of claim 1 wherein the color indicator is a design section on an outer surface of said postage stamp, said indicator indicating a first color prior to exposure to sterilization from said sterilization apparatus and the second color after exposure to sterilization from said sterilization apparatus.
- 5. The system of claim 1 wherein the color indicator is a background section on an outer surface of said stamp, said background indicating a first color prior to exposure to sterilization from said sterilization apparatus and the second color after exposure to sterilization from said sterilization apparatus.
- 6. The system of claim 1 wherein said postage stamp provides an indication of payment of postal fees for mailing said mail article.
  - 7. The system of claim 1 wherein:
- said sterilization apparatus emits an electron beam to sterilize said
  mail article;
- said postage stamp provides an indication of payment of postal fees for mailing said mail article; and
- said color indicator changes from the first color to the second color upon exposure to said electron beam.

recipient.

l	8.	The system of claim 1 wherein said postage stamp is a meter
2	mark affixe	d to said mail article.

- 9. A method of indicating proper sterilization of a mail article by a sterilization apparatus, said method comprising the steps of:
   affixing; by a sender of the mail article, a postage stamp to a mail article;
   collecting, by a postal service, the mail article;
   sterilizing, by the sterilization apparatus, the mail article;
   transforming a portion of a postage stamp affixed to the mail article from a first color to a second color when the mail article successfully completes sterilization by the sterilization apparatus; and delivering, by the postal service, the mail article to a specified
  - 10. The method of indicating proper sterilization of a mail article of claim 9, further comprising, after the step of sterilizing, by the sterilization apparatus, the mail article, the step of:
  - determining, by the postage service, if the postage stamp has changed to the second color;
- sterilizing, by the sterilization apparatus, the mail article if the postage stamp has not changed to the second color.

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1	11. The method of indicating proper sterilization of a mail
2	article of claim 9 wherein said step of sterilizing, by the sterilization
3	apparatus, the mail article includes emitting an electron beam by the
4	sterilization apparatus to sterilize the mail article.

12. A stamp for indicating proper sterilization of a mail article, said stamp comprising:

a sheet of material having an outer surface and a back surface;

said outer surface displaying a color indicator; and

said back surface having an adhesive for affixing said sheet of material to the mail article;

whereby said color indicator indicates a first color prior to being subjected to a sterilization process and indicating a second color after being subjected to a sterilization process.